

SCIENTIFIC MISCELLANY.

A novel electric watch, lighter, the tempest, is being manufactured by a firm of electricians in London, Eng. It resembles an enlarged pocket watch, and has in its face a minute-luminous lamp and redactor. On placing the watch in the case and pressing a small button, the face of the watch will be brightly lighted. A dry battery supplies the current, and may be placed in a case, with a flexible conducting cord leading from it to the head of the watch on which the watch is placed. The battery will last for this purpose for years, and no chemicals are required.

The proprietor of some 1,500 acres of farms in the Western Pyrenees has applied the power of a neighboring waterfall to the generation of electricity for lighting the property, for working a vine press, and for irrigating some 60 miles of vine.

The important fact that human beings are liable to contract certain diseases has been demonstrated experimentally by two Italian doctors. Persons usually resist such diseases, but after a few days they proved themselves to be the virus if food was still withheld, but resisted it if food was given at the same time as the virus. When the fasting was continued for two days after food was introduced, and food then given, the disease was not prevented, but ran a slow course. Even birds will feed up to the time of the inoculation period, and then the virus if kept without food after inoculation.

An interesting scientific play is being mounted in Paris, and the chief towns. Questions of the different departments, and also have a scientific play for each. A small electric ball and a few other things are provided. The child puts one of the conducting wires over any question playing and moves the other end over the map, and the map will ring, showing the correct answer.

It has been pointed out by M. A. Vacher that when the aurora reaches a certain point in the period of 27 days and 6 hours, the numbers show, indicating the probability of the aurora appearing. This indicates a periodicity of the aurora, corresponding with the time of the sun's rotation.

Some interesting figures, concerning the use of electricity in a recent year have been obtained by Prof. Colombo and Ferri from the central electric station of Milan. It appears that in that city the general amount of the electric light is 740 hours. The largest consumers are the restaurants and the theatres, averaging 1800 hours a year. The clubs light up 1300 hours, the hotels, 850 hours, the stores, are very variable, some averaging about 750 hours, counting rooms, banks, offices, etc., 400 hours; dwellings, only 320 hours. The January consumption of electricity is one-eighth of the total for the year; the June consumption is about one-tenth. In the use of gas, the general consumption corresponds in Milan to about 900 hours of lighting. Large cities, Rome, for example, consume about 100 million cubic metres for public lighting and 31 million cubic metres for private lighting, for each inhabitant, while in smaller cities the total consumption ranges from 32 to 100 million cubic metres per inhabitant. Milan requires 14 cubic metres per inhabitant for public lighting, and 48 for private lighting.

The body of an ant's jaw is related even after the grip has been severed from the head. According to the latest findings, this jaw is possessed by a certain tribe of Indians in Brazil, who put the ant to a very peculiar use. When an Indian gets a gash on his hand, instead of using a knife, he takes a small ant, as physicians do this country, he procures five or six black ants, and holding their heads near the gash, he brings their jaws together in biting the flesh, and in a few minutes the gash is healed. Then the Indian pinches off the bodies of the ants, and leaves their heads clinging to the gash, which is held together until perfectly healed.

Resemblances between husband and wife have often been noted, and have been ascribed to the influence exerted by the mother during pregnancy, many years of life together. This explanation, however, does not satisfy M. Hermann Pail, a careful French observer, who is convinced that in a large number of cases there is a more or less striking similarity between the features and who concludes that in such cases marriage is due to qualities possessed by the couple in common, not to the influence of the mother. The resemblance in the many married people visiting him first drew his attention to the subject. The curious phenomenon so impressed him, that he obtained the photographs of 251 couples for comparison, and he found a resemblance between husband and wife in 192 (about 68 per cent.) of the 196 young couples, and in 93 (about 71 per cent.) of the 53 old couples.

The Magdalen Alps, a small Department in southern France, blessed with an exceptionally mild climate, is especially of growing importance, particularly in the winter season. The product has become really astonishing, reaching an annual total of 3,306,000 kilograms (nearly 7,300,000 pounds), having a value of about 15,000,000 francs. This includes 1,860,000 kilograms of oranges, blossoms, the chief crop; 7,000,000 kilograms of pears; 157,000 kilograms of apples; 147,000 kilograms of peaches; 14,000 kilograms of cherries; 50,000 kilograms of quinces; and 20,000 kilograms of mignonnets.

The bluish-grey colour of the shell of the crab and the bluish tint of the meat is due to the position of two pigments, carotene and the other blue. This blue pigment is easily destroyed, as by boiling and sometimes by disease, leaving the more stable red in all its brilliancy.

Among the latest attempts to produce satisfactory motor for light road vehicles is that of Mr. Edward Butler, of Glasgow, England. His apparatus is a petroleum motor, which is expected to run 4 miles, at a rate of 3 to 10 miles an hour, on a consumption of one gallon of petroleum. The motor is placed on the rear wheel, which is covered by an oil reservoir of a capacity of 3 gallons, and has a cylinder on each side, and a valve close to it. The fuel is drawn from the reservoir by a pump, and the second stroke compresses the charge, which is exploded at the third stroke, and exhausted on the fourth. The crank shaft operated by the pistons is geared to give motion to the rear wheel, which is driven in the ratio of 6 to 1. The compressed charges are alternately ignited by a spark from an electric battery under the seat, and the two forward wheels. Stopping and starting are accomplished by raising and lowering the driving wheel by a foot lever on castors, steering is effected by a pair of rotating handles, actuating the front wheels, and the speed is regulated by a throttle valve lever. The complete machine weighs 250 pounds.

A minute percentage of aluminium has the effect, as is well known, of lowering the melting point of iron or steel, making it extremely fluid, and facilitating the production of castings free from blowholes. The new Siemens process, with which experiments have been made in Germany, is designed to lessen the cost of the alloy and make it general use practicable. This process consists simply in the addition of energy and alum from the iron ore or pig is melted, the reaction of the alum on the energy giving rise to vapours of metallic aluminium, which instantly alloy themselves with the iron, imparting the improved qualities which have hitherto been gained by the addition of minute doses of aluminium or ferro-aluminium.

An English chemical journal reports a series of experiments by Mr. Damschroder to determine the resistance to frost of natural and artificial building-stones. From 3 to 6 pieces of each were selected, and their tensile strength, wet and dry, their capacity for absorbing water, alteration in volume, tensile strength and behaviour towards frost, after freezing and thawing 25 times, were determined. The results were determined. Of samples of 21 different kinds of natural stone, only one—of the kind of granite, and 4 samples—were found to be resistant to frost. Of 41 samples of artificial stone, only 3 were found to be resistant to frost, while 8 were found to be resistant.

The element fluorine is of great interest to chemists, as it is the most powerful solvent known. Hitherto it has been found in nature only in a state of combination, and has been isolated with the greatest difficulty, but two French investigators have lately obtained evidence of its existence in a free state in fluorapatite.

COMMERCIAL INTELLIGENCE.

WEDNESDAY, 8th APRIL.

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 Bank Bills, at 13620 days sight, 3/4
 Bank Bills, at 13650 days sight, 3/4
 Bank Bills, at 13680 days sight, 3/4
 Bank Bills, at 13710 days sight, 3/4
 Bank Bills, at 13740 days sight, 3/4
 Bank Bills, at 13770 days sight, 3/4
 Bank Bills, at 13800 days sight, 3/4
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 Bank Bills, at 14070 days sight, 3/4
 Bank Bills, at 14100 days sight, 3/4
 Bank Bills, at 14130 days sight, 3/4
 Bank Bills, at 14160 days sight, 3/4
 Bank Bills, at 14190 days sight, 3/4
 Bank Bills, at 14220 days sight, 3/4
 Bank Bills, at 14250 days sight, 3/4
 Bank Bills, at 14280 days sight, 3/4
 Bank Bills, at 14310 days sight, 3/4
 Bank Bills, at 14340 days sight, 3/4
 Bank Bills, at 14370 days sight, 3/4
 Bank Bills, at 14400 days sight, 3/4
 Bank Bills, at 14430 days sight, 3/4
 Bank Bills, at 14460 days sight, 3/4
 Bank Bills, at 14

